






AQUEOUS TWO-COMPONENT POLYURETHANE COATING AGENT, PROCESS FOR PREPARING THE SAME AND ITS USE IN A PROCESS FOR APPLYING A MULTILAYERED COATING OF LACQUER






Patent number: WO9502005
Publication date: 1995-01-19
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Classification:
- **international:** C08G18/62; C08G18/08
- **european:** C08F8/30; C08G18/08B6C; C08G18/62G5D3; C08G18/62G5K; C08G18/62G6D; C09D133/06B4
Application number: WO1994EP01991 19940618
Priority number(s): DE19934322242 19930703

Also published as:

 EP0707608 (A1)
 US5670600 (A1)
 DE4322242 (A1)
 EP0707608 (B2)
 EP0707608 (B1)

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Cited documents:

 EP0408858
 EP0358979
 FR2295048
 WO9000570
 DE4132430

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An aqueous two-component polyurethane coating agent contains (A) a water dilutable polyacrylate resin (A) with an hydroxyl number from 40 to 200 mg KOH/g, an acid number from 20 to 100 mg KOH/g and a glass transition temperature from -40 DEG C to +60 DEG C; and (B) a polyisocyanate component as cross-linking agent. The coating is characterised in that the water dilutable acrylate resin is produced by solution polymerisation in the presence of a polymerisation initiator of at least one carboxyl group-free monomer, at least one hydroxyl group-containing monomer, at least one vinyl ester of alpha -branched monocarboxylic acids with 5 to 18 C atoms per molecule and/or at least one reaction product of acrylic and/or methacrylic acid with the glycidyl ester of alpha -branched monocarboxylic acids with 5 to 18 C atoms per molecule, at least one carboxyl group-containing monomer and if required other substantially carboxyl group-free monomers. At the end of the polymerisation, the thus obtained polyacrylate resin is at least partially neutralised and dispersed in water.

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